

(43) International Publication Date 22 February 2001 (22.02.2001)

PCT

(10) International Publication Number WO 01/13112 A1

(51) International Patent Classification⁷: G01N 33/53, C07K 5/12

(21) International Application Number: PCT/US00/16396

(22) International Filing Date: 15 June 2000 (15.06.2000)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 60/148,994

12 August 1999 (12.08.1999) US

(71) Applicant (for all designated States except US): PALATIN TECHNOLOGIES, INC. [US/US]; Suite 200, 103 Carnegie Center, Princeton, NJ 08540 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): SHARMA, Shubh, D. [IN/US]; 3602 Ravens Crest Drive, Plainsboro, NJ 08536 (US). SHI, Yi-Qun [CN/US]; 138 Longfield Court, East Brunswick, NJ 08816 (US). YANG, Wei [CN/US]; 102 Dellwood Road, Edison, NJ 08820 (US). CAI, Hui-Zhi [CN/US]; Apartment #1613, 160 Evergreen Road, Edison, NJ 08837 (US).

(74) Agent: SLUSHER, Stephen, A.; Peacock, Myers & Adams, P.C., P.O. Box 26927, Albuquerque, NM 87125-6927 (US).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

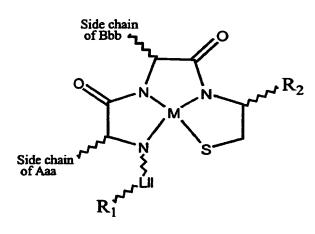
(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

With international search report.

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: MELANOCORTIN METALLOPEPTIDE CONSTRUCTS, COMBINATORIAL LIBRARIES AND APPLICATIONS



(57) Abstract: Metallopeptides and metallopeptide combinatorial libraries specific for melanocortin receptors are provided, for use in biological, pharmaceutical and related applications. The metallopeptides and combinatorial libraries are made of peptides, peptidomimetics and peptide-like constructs, in which the peptide, peptidomimetic or construct is conformationally fixed on complexation of a metal ion-binding portion thereof with a metal ion.

WO 01/13112 A1